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PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN WI
817 AM CDT FRI AUG 12 2005

...PUBLIC INFORMATION STATEMENT...

...DROUGHT STATEMENT FOR SOUTHERN WISCONSIN...

...SHORT TERM DROUGHT CONDITIONS PERSIST ACROSS SOUTHERN WISCONSIN IN
RESPONSE TO RECENT DRY SPELL...

...LONG TERM DROUGHT CONDITIONS CONTINUE TO ADVERSELY AFFECT SOUTH
CENTRAL AND SOUTHEASTERN WISCONSIN...

...THIS STATEMENT COVERS THE FOLLOWING AREAS AND COUNTIES IN
WISCONSIN...

CENTRAL...DIVISION 5...MARQUETTE...GREEN LAKE.

EAST CENTRAL...DIVISION 6...FOND DU LAC...SHEBOYGAN.

SOUTHWEST...DIVISION 7...SAUK...IOWA...LAFAYETTE.

SOUTH CENTRAL...DIVISION
8...COLUMBIA...DODGE...DANE...JEFFERSON...GREEN...ROCK.

SOUTHEAST...DIVISION 9...WASHINGTON...OZAUKEE...WAUKESHA...
MILWAUKEE...WALWORTH...RACINE...KENOSHA.

DIVISION REFERS TO AREAS USED IN DROUGHT PREDICTION. A MAP MAY BE FOUND
AT...

ALL LOWER CASE...[HTTP://WWW.CPC.NCEP.NOAA.GOV/PRODUCTS/
ANALYSIS_MONITORING/REGIONAL_MONITORING/CLIM_DIVS/WISCONSIN.GIF](http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/clim_divs/wisconsin.gif)

.SYNOPSIS...VARIOUS AREAS OF HIGH PRESSURE DOMINATED THE AREA FROM JULY
29 THROUGH AUGUST 10. HOT AND HUMID WEATHER PERSISTED FOR MOST OF THIS
PERIOD. A FEW COLD FRONTS MOVING THROUGH THE REGION DURING THIS PERIOD
BROUGHT ISOLATED TO SCATTERED THUNDERSTORMS...WHICH BROUGHT ONLY SMALL
AMOUNTS OF RAINFALL TO PORTIONS OF SOUTHERN WISCONSIN.

DURING THIS TIME...SOUTH CENTRAL AND SOUTHEAST WISCONSIN ONLY SAW
BETWEEN
0.01 TO 0.50 TOTAL INCHES OF PRECIPITATION...WHICH WAS MOSTLY SCATTERED.
SOME AREAS DID NOT RECEIVE ANY RAINFALL DURING THIS PERIOD. THIS DID
NOT HELP TO ALLEVIATE SHORT TERM DROUGHT CONDITIONS. IN ADDITION...LONG
TERM DEFICITS REMAINED...THUS DROUGHT CONDITIONS WILL PERSIST.

PRECIPITATION AMOUNTS AT VARIOUS LOCATIONS ACROSS SOUTHERN WISCONSIN...

CITY	COUNTY	JUL 29-AUG 10	SINCE AUG 1	
DEFICIT/SURPLUS				
SULLIVAN	JEFFERSON	0.34	0.34	-----
MADISON	DANE	0.14	0.14	-1.26
FOND DU LAC	FOND DU LAC	0.48	0.42	-----
MILWAUKEE	MILWAUKEE	0.15	0.15	-1.15
KENOSHA	KENOSHA	0.27	0.27	-----
RACINE	RACINE	0.18	0.18	-----

.LOCAL AREAS AFFECTED...ALL 20 COUNTIES WITHIN THE NATIONAL WEATHER SERVICE AT MILWAUKEE COUNTY WARNING AREA ARE CURRENTLY AFFECTED BY A MODERATE...SEVERE...OR EXTREME DROUGHT. SPECIFICALLY...

MODERATE DROUGHT...D1 CONDITIONS WERE EVIDENT ACROSS SAUK AND IOWA COUNTIES IN SOUTHWEST WISCONSIN...MARQUETTE AND GREEN LAKE COUNTIES IN CENTRAL WISCONSIN...FOND DU LAC COUNTY IN EAST CENTRAL WISCONSIN...AND COLUMBIA COUNTY IN SOUTH CENTRAL WISCONSIN.

DURING MODERATE DROUGHT...THERE MAY BE SOME DAMAGE TO CROPS AND PASTURES...THE FIRE RISK IS HIGH...STREAMS...RESERVOIRS...OR WELLS MAY BE LOW...SOME WATER SHORTAGES MAY BE DEVELOPING OR IMMINENT...AND VOLUNTARY WATER USE RESTRICTIONS ARE REQUESTED.

SEVERE DROUGHT...D2 CONDITIONS WERE EVIDENT ACROSS LAFAYETTE COUNTY IN SOUTHWEST WISCONSIN...DANE...DODGE...JEFFERSON...GREEN AND ROCK COUNTIES IN SOUTH CENTRAL WISCONSIN...SHEBOYGAN COUNTY IN EAST CENTRAL WISCONSIN...AND OZAUKEE...WASHINGTON...WAUKESHA AND MILWAUKEE COUNTIES IN SOUTHEAST WISCONSIN.

DURING SEVERE DROUGHT...CROP OR PASTURE LOSSES ARE LIKELY...THE FIRE RISK IS VERY HIGH...WATER SHORTAGES ARE COMMON...AND WATER RESTRICTIONS MAY BE IMPOSED.

EXTREME DROUGHT...D3 CONDITIONS WERE EVIDENT ACROSS WALWORTH...RACINE AND KENOSHA COUNTIES IN SOUTHEAST WISCONSIN.

DURING EXTREME DROUGHT...MAJOR CROP OR PASTURE LOSSES ARE OCCURRING...THERE IS AN EXTREME FIRE DANGER...AND WIDESPREAD WATER SHORTAGES OR RESTRICTIONS ARE OCCURRING.

FOR THE LATEST DROUGHT INFORMATION GO TO...

ALL LOWER CASE...[HTTP://WWW.NDMC.UNL.EDU/DM/MONITOR.HTML](http://www.ndmc.unl.edu/dm/monitor.html)

GOVERNOR JIM DOYLE DECLARED A STATEWIDE DROUGHT EMERGENCY BEGINNING JULY 15. THE DROUGHT EMERGENCY EXTENDS FOR 30 DAYS BEYOND THE STARTING DATE.

FOR MORE INFORMATION ON THE DECLARED DROUGHT EMERGENCY...

ALL LOWER CASE...
[HTTP://WWW.DNR.STATE.WI.US/ORG/CAER/CE/NEWS/RBNEWS/2005/071505C01.HTM](http://www.dnr.state.wi.us/org/caer/ce/news/rbnews/2005/071505C01.htm)

.CLIMATE SUMMARY...SHORT TERM PRECIPITATION DEFICITS FOR AUGUST 1-10 HAVE GROWN SOMEWHAT LARGE...WITH MOST AREAS AVERAGING 0.75 TO 1.50 INCHES BELOW NORMAL RAINFALL.

IN ADDITION...LONG TERM DEFICITS SINCE APRIL 1 CONTINUE TO BE A PROBLEM ACROSS ALL OF SOUTHERN WISCONSIN. RAINFALL IS 4 TO 8 INCHES BELOW NORMAL ACROSS MOST OF SOUTHERN WISCONSIN. THE DRIEST AREA IS LOCATED ACROSS PORTIONS OF SOUTHEAST WISCONSIN...SPECIFICALLY RACINE AND KENOSHA COUNTIES...WHERE RAINFALL IS GREATER THAN 8 INCHES BELOW NORMAL.

THE EAST CENTRAL WISCONSIN CLIMATE DIVISION...WHICH INCLUDES FOND DU LAC AND SHEBOYGAN COUNTIES...RANKS THE FIFTH DRIEST APRIL 1 TO

JULY 31 PERIOD ON RECORD. THE SOUTHEAST WISCONSIN CLIMATE DIVISION RANKS THE 12TH DRIEST APRIL 1 TO JULY 31 PERIOD ON RECORD.

FOR ADDITIONAL CLIMATE INFORMATION FOR SOUTH CENTRAL AND SOUTHEASTERN WISCONSIN VISIT...

ALL LOWER CASE...[HTTP://WWW.CRH.NOAA.GOV/MKX/CLIMATE.PHP](http://www.crh.noaa.gov/mkx/climate.php)

.SOIL MOISTURE CONDITIONS...CALCULATED SOIL MOISTURE CONDITIONS HAVE DECLINED ACROSS SOUTHERN WISCONSIN. THE TOP 12 INCHES OF SOIL ARE CURRENTLY 0.10 INCH TO 1 INCH BELOW NORMAL ACROSS SOUTHERN WISCONSIN. THE TOP 72 INCHES OF SOIL ARE ALSO SHOWING A DEFICIT...WITH SOIL MOISTURE BETWEEN 0.50 INCH AND 2.50 INCHES BELOW NORMAL ACROSS SOUTHERN WISCONSIN. MORE SPECIFICALLY...CROP SOIL MOISTURE CONDITIONS ACROSS WISCONSIN CLIMATE REGIONS WERE...

WISCONSIN REGION	PERCENT VERY SHORT	PERCENT SHORT	PERCENT ADEQUATE	PERCENT SURPLUS
CENTRAL	5	75	20	0
EAST CENTRAL	57	35	8	0
SOUTHWEST	16	26	58	0
SOUTH CENTRAL	37	43	20	0
SOUTHEAST	30	64	6	0

FOR MORE INFORMATION ON SOIL MOISTURE CONDITIONS PLEASE VISIT...

ALL LOWER CASE...[HTTP://MRCC.SWS.UIUC.EDU/WATCH/DROUGHT/MOISTURE.HTM](http://mrcc.sws.uiuc.edu/watch/drought/moisture.htm)
OR

ALL LOWER CASE...[HTTP://WWW.CPC.NOAA.GOV/PRODUCTS/SOILMST/W.SHTML](http://www.cpc.noaa.gov/products/soilmst/w.shtml)

.RIVER AND STREAM FLOW CONDITIONS...RIVERS ACROSS SOUTHERN WISCONSIN CONTINUE TO RUN AT OR BELOW NORMAL FLOW RATES...PREDOMINANTLY LESS THAN 50 PERCENT OF NORMAL FLOW. RIVERS IN THE SOUTHEAST CORNER OF THE STATE...INCLUDING THE ROOT RIVER...THE FOX RIVER...AND THE MILWAUKEE RIVER ARE RUNNING AT THE GREATEST DEFICITS. SPECIFIC GAUGES AT MILWAUKEE AND RACINE SHOW FLOW RATES LESS THAN 10 PERCENT OF NORMAL...WITH OTHER SITES ALONG THESE RIVERS RUNNING AT LESS THAN 24 PERCENT OF NORMAL. DESPITE QUICK RESPONSES TO A FEW BOUTS OF HEAVY RAINFALL THE PAST TWO WEEKS...RIVERS WERE QUICK TO DROP BACK TO NORMAL OR BELOW NORMAL FLOW RATES ONCE THE PRECIPITATION LEFT THE AREA.

FOR THE LATEST ON RIVER AND STREAM FLOW CONDITIONS...PLEASE VISIT...

ALL LOWER CASE...[HTTP://WWW.CRH.NOAA.GOV/CGI-BIN/AHPS.CGI?MKX](http://www.crh.noaa.gov/cgi-bin/ahps.cgi?mkx)
OR

ALL LOWER CASE...[HTTP://WI.WATER.USGS.GOV](http://wi.water.usgs.gov)

.GROUNDWATER... THE CURRENT WELL WATER LEVEL IS 12.14 FEET BELOW GROUND LEVEL AS OF 7 AM ON AUGUST 11. THIS LEVEL IS SLIGHTLY LOWER THAN THE 11.98 FEET BELOW GROUND LEVEL NOTED ON JULY 29. THE LOWEST LEVEL ON RECORD WAS 15.86 FEET BELOW THE GROUND LEVEL ON OCTOBER 15 1965. THE HIGHEST LEVEL ON RECORD WAS 5.09 FEET BELOW THE GROUND LEVEL ON APRIL 24 1993. THIS DATA IS BASED ON DANE COUNTY RECORDS AT MAZOMANIE. PERIOD OF RECORD EXTENDS FROM OCTOBER 1953 THROUGH THE PRESENT.

FOR MORE INFORMATION...INCLUDING DEFINITIONS RELATING TO GROUND WATER...PLEASE VISIT...

ALL LOWER CASE...[HTTP://WATERDAT.USGS.GOV/WI/NWIS/CURRENT/?TYPE=GW](http://waterdat.usgs.gov/wi/nwis/current/?type=gw)

.AGRICULTURAL IMPACTS...AS OF AUGUST 8...AFTER TWO WEEKS OF SCATTERED SHOWERS...DRY WEATHER RETURNED. WITHOUT ADDITIONAL RAIN...MANY CROPS ARE IN DANGER OF FURTHER YIELD REDUCTION. INSECTS ARE ALSO CAUSING DAMAGE. PRECIPITATION WAS VERY SLIM LAST WEEK. DURING THIS LAST HOT AND DRY WEEK...THERE WAS AN AVERAGE OF 6.7 DAYS SUITABLE FOR FIELDWORK.

WISCONSIN CROP PROGRESS COMPILED BY THE USDA NATIONAL AGRICULTURAL STATISTICS SERVICE AS OF AUGUST 7...

CROP AND PCT OF ACREAGE	SW	C	EC	SC	SE
OATS HARVESTED FOR GRAIN	84	82	67	86	83
CORN SILKED	98	88	93	97	99
CORN DOUGH	17	15	14	18	25
SOYBEANS BLOOMED	97	98	93	93	99
SOYBEANS SETTLING PODS	90	65	56	78	90
THIRD CUTTING HAY	42	15	19	30	42
WINTER WHEAT HARVESTED	97	97	89	95	99

THE GENERAL CONSENSUS IS THAT EVERYONE IN THE AGRICULTURAL COMMUNITY IS THANKFUL FOR THE RECENT RAIN IN PAST WEEKS...BUT MUCH MORE IS NEEDED. EXCESSIVE HEAT LAST WEEK DID NOT HELP THE ALREADY SEVERE TO EXTREME DROUGHT CONDITIONS ACROSS SOUTHERN WISCONSIN. SOME LOCAL QUOTES PARTICULAR TO SOUTH CENTRAL AND SOUTHEAST WISCONSIN INCLUDED...

DANE COUNTY...STILL IN NEED OF MORE RAIN. CORN AND SOYBEANS WERE AFFECTED BY THE DRY WEATHER BEFORE THE RAINS CAME. LOWER PODS ON SOYBEANS ARE FEW...IN ANY. UPPER STEMS SEEM TO HAVE MORE PODS PRESENT ON NODES. EARLY CORN PLANTED WAS POLLINATING DURING DRY WEATHER...AND IS NOW SHOWING SIGNS OF LACK OF POLLINATION.

SHEBOYGAN COUNTY...THE DRY WEATHER WILL RESULT IN SIGNIFICANT YIELD REDUCTION...UNLESS WE GET GOOD RAIN IN THE NEXT WEEK.

WASHINGTON COUNTY...CORN IS VERY DRY...BUT LOOKS OK. BEETLES ARE ALL OVER FEEDING ON SILK...WHICH MAY BE A PROBLEM IN LATER-PLANTED FIELDS. WE NEED RAIN TO KEEP POLLINATION GOING TO KEEP THE PLANTS FROM ABORTING KERNELS. SOYBEANS ARE STANDING STILL...AND APHIDS ARE FEEDING OFF THE PLANTS IN SOME FIELDS AND NOT IN OTHERS. SPIDER MITES ARE IN EVERY FIELD. AT THIS POINT...THEY ARE NOT DAMAGING THE LEAVES BECAUSE THE LEAVES TURN OVER AS THE DAY GETS WARMER. BLOSSOMS ARE DROPPING AND PODS ALSO. THIS HAS TO AFFECT YIELDS. LOTS OF FOLIAGE...BUT NOT THAT GREAT OF A POD SET. HAY IS SHORT...BUT HAS GOOD QUALITY. SWEET CORN IS SHORT AND TASSELING. EARLY CORN HAS VERY SPOTTY POLLINATION.

FOR MORE INFORMATION ON AGRICULTURAL IMPACTS...PLEASE VISIT

ALL LOWER CASE...[HTTP://CROPWATCH.UNL.EDU/WEATHER.HTM](http://cropwatch.unl.edu/weather.htm)

OR

ALL LOWER CASE...[HTTP://WWW.NASS.USDA.GOV/WI/CROPWEATHER/CWCURR.PDF](http://www.nass.usda.gov/wi/cropweather/cwcurr.pdf)

.FIRE DANGER IMPACTS...FIRE DANGER CONDITIONS REMAIN AT THE LOW TO MODERATE LEVEL...WITH 10 HOUR FUEL MOISTURES OF 9 TO 10 PERCENT...AND 100 HOUR FUEL MOISTURES OF 11 TO 15 PERCENT ACROSS SOUTHERN WISCONSIN.

FOR MORE INFORMATION ON FIRE DANGER PLEASE VISIT...

ALL LOWER CASE...[HTTP://WWW.DNR.STATE.WI.US/ORG/LAND/FORESTRY/FIRE/](http://WWW.DNR.STATE.WI.US/ORG/LAND/FORESTRY/FIRE/)
OR

ALL LOWER CASE...[HTTP://WWW.FS.FED.US/LAND/WFAS/WFAS10.HTML](http://WWW.FS.FED.US/LAND/WFAS/WFAS10.HTML)

.CLIMATE OUTLOOK...FOR THE REST OF THE MONTH OF AUGUST...THE CLIMATE OUTLOOK SHOWS LITTLE OR NO SKILL...AND THUS THE FORECAST IS FOR EQUAL CHANCES OF ABOVE...NEAR NORMAL...AND BELOW NORMAL PRECIPITATION AND TEMPERATURES.

THE CLIMATE OUTLOOK FOR AUGUST THROUGH OCTOBER CONTINUES TO SHOW LITTLE OR NO SKILL...AND THUS THE FORECAST IS FOR EQUAL CHANCES OF ABOVE...NEAR NORMAL...AND BELOW NORMAL PRECIPITATION AND TEMPERATURES. HOWEVER...THE SEASONAL DROUGHT OUTLOOK THROUGH OCTOBER INDICATES THAT DROUGHT CONDITIONS SHOULD IMPROVE SOMEWHAT OVERALL. THIS IS IN LINE WITH THE LONG TERM TREND THAT SHOWS A MORE FAVORABLE PATTERN FOR PRECIPITATION...WITH COOLER TEMPERATURES.

BASED ON THE CLIMATE DIVISIONS ACROSS SOUTHERN WISCONSIN...THE FOLLOWING TABLE DISPLAYS HOW MUCH RAIN IS NEEDED...AVERAGED OVER THE CLIMATE DIVISION...TO END THE CURRENT DROUGHT AS OF AUGUST 6. RAINFALL FOR JULY 31 TO AUGUST 6...AND THE AMOUNT SHORT ARE INCLUDED. NOTE THAT THE EAST CENTRAL AND SOUTHEAST AREAS NEED THE MOST PRECIPITATION TO ALLEVIATE THE DROUGHT.

CLIMATE DIVISION	NEEDED	PRECIPITATION PAST WEEK	AMOUNT SHORT
CENTRAL	2.32	0.02	2.30
EAST CENTRAL	5.19	0.06	5.13
SOUTHWEST	2.65	0.17	2.48
SOUTH CENTRAL	3.97	0.21	3.76
SOUTHEAST	6.93	0.16	6.77

ADDITIONAL INFORMATION REGARDING PRECIPITATION AND TEMPERATURE OUTLOOKS MAY BE OBTAINED AT...

ALL LOWER CASE...

[HTTP://WWW.CPC.NCEP.NOAA.GOV/PRODUCTS/OUTLOOKS_INDEX.SHTML](http://WWW.CPC.NCEP.NOAA.GOV/PRODUCTS/OUTLOOKS_INDEX.SHTML)

.IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS INFORMATION PLEASE CONTACT...

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.ACKNOWLEDGEMENTS...NOAA CLIMATE PREDICTION CENTER...MIDWEST REGIONAL CLIMATE CENTER...HIGH PLAINS REGIONAL CLIMATE CENTER...UNITED STATES GEOLOGICAL SURVEY...STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES...UNITED STATES DEPARTMENT OF AGRICULTURE... NATIONAL WEATHER SERVICE LA CROSSE WISCONSIN AND NATIONAL WEATHER SERVICE SPRINGFIELD MISSOURI.

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WOOD/HANSING/KONOP/EISE/STAFF NWS MILWAUKEE

